Claim Amendment Summary

Claims pending

- At time of the Action: Claims 1-48.
- After this Response: Claims 40-48.

Canceled or Withdrawn claims: 1-39.

Amended claims: 47.

New claims: none.

Claims:

Claims 1-19 are canceled.

40. (Previously Presented) A method facilitating similarity recognition of a digital signal, the method comprising:

obtaining a digital signal; and

deriving a recognition value representative of the digital signal such that perceptually distinct digital signals result in recognition values that are approximately independent of one another and perceptually similar digital signals result in proximally similar recognition values, wherein deriving a recognition value includes:

transforming a digital signal into a digital signal transform;

quantizing the digital signal transform;

geometric-region-growing the digital signal transform;

generating the recognition value of the digital signal.

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41. (Previously Presented) A method as recited in claim 40 further comprising:

pseudorandomly segmenting the digital signal into one or more segments;

for one or more of the segments, repeating the transforming, the quantizing, and the geometric-region-growing, wherein these repeated tasks are performed on a segment rather than the entire signal;

combining one or more of the segments.

42. (Previously Presented) A method as recited in claim 40 further comprising comparing the recognition value with another recognition value derived from another digital signal.

43. (Previously Presented) A method as recited in claim 40, wherein the recognition value is a hash value.

44. (Previously Presented) A method as recited in claim 40, wherein the digital signals are digital image signals.

45. (Previously Presented) One or more computer-readable media having computer-executable instructions embodied therein, that, when executed by one or more processors, cause the one or more processors to perform acts comprising:

obtaining a digital signal; and

deriving a recognition value representative of the digital signal such that perceptually distinct digital signals result in recognition values that are

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approximately independent of one another and perceptually similar digital signals result in proximally similar recognition values, wherein deriving a recognition value comprises:

transforming a digital signal into a digital signal transform;

quantizing the digital signal transform;

geometric-region-growing the digital signal transform;

generating the recognition value of the digital signal.

46. (Previously Presented) One or more media as recited in claim 45 further comprising computer-executable instructions configured to cause the one or more processors to perform acts comprising:

pseudorandomly segmenting the digital signal into one or more segments;

for one or more of the segments, repeating the transforming, the quantizing, and the geometric-region-growing, wherein these repeated tasks are performed on a segment rather than the entire signal;

combining one or more of the segments.

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47. (Currently Amended) A computer configured to perform acts comprising:

obtaining a digital signal; and

deriving a recognition value representative of the digital signal such that perceptually distinct digital signals result in recognition values that are approximately independent of one another and perceptually similar digital signals result in proximally similar recognition values, wherein deriving a recognition value ~~comprising~~ comprises:

transforming a digital signal into a digital signal transform;

quantizing the digital signal transform;

geometric-region-growing the digital signal transform;

generating the recognition value of the digital signal.

48. (Previously Presented) A computer as recited in claim 47, the acts further comprising:

pseudorandomly segmenting the digital signal into one or more segments;

for one or more of the segments, repeating the transforming, the quantizing, and the geometric-region-growing, wherein these repeated tasks are performed on a segment rather than the entire signal;

combining one or more of the segments.

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